

PM Conformity Hot Spot Analysis – Project Summary for Interagency Consultation

RTIP ID# <i>(required)</i> ORA120359					
TCWG Consideration Date					
Project Description <i>(clearly describe project)</i> This is an operational improvement project on southbound Route 5 (SB I-5) between Tustin Ranch Rd and Jamboree Rd in the Cities of Irvine and Tustin. It proposes to construct a second 12-ft wide auxiliary lane and a 10-ft wide shoulder from Tustin Ranch Rd on-ramp to Jamboree Rd off-ramp, which includes a 14-ft bridge widening at El Modena-Irvine Channel Bridge and two retaining walls. A 12-ft wide outside lane and 8-ft wide shoulder will added along Jamboree Rd off-ramp to provide for two lanes exiting at the freeway and four lanes at the off-ramp intersection with Jamboree Road.					
Type of Project <i>(use Table 1 on instruction sheet)</i> Change to existing State Highway					
County Orange	Narrative Location/Route & Postmiles On SB I-5 between Tustin Ranch Rd & Jamboree Rd. PM 27.6/28.1 Caltrans Projects – EA# 0G9900				
Lead Agency: Caltrans					
Contact Person Fred Faizi	Phone# (949) 724-2145	Fax# (949) 724-2591	Email fred_faizi@dot.ca.gov		
Hot Spot Pollutant of Concern <i>(check one or both)</i> PM2.5 <input checked="" type="checkbox"/> PM10 <input checked="" type="checkbox"/>					
Federal Action for which Project-Level PM Conformity is Needed <i>(check appropriate box)</i>					
<input checked="" type="checkbox"/> Categorical Exclusion (NEPA)	<input type="checkbox"/> EA or Draft EIS	<input type="checkbox"/> FONSI or Final EIS	<input type="checkbox"/> PS&E or Construction	<input type="checkbox"/> Other	
Scheduled Date of Federal Action:					
NEPA Delegation – Project Type <i>(check appropriate box)</i>					
<input type="checkbox"/> Exempt	<input checked="" type="checkbox"/> Section 6004 – Categorical Exemption		<input type="checkbox"/> Section 6005 – Non-Categorical Exemption		
Current Programming Dates <i>(as appropriate)</i>					
	PE/Environmental	ENG	ROW	CON	
Start	05/04/05	07/01/08	04/26/05	10/01/11	
End	07/01/08	11/01/09	08/01/09	06/01/12	
Project Purpose and Need (Summary): <i>(attach additional sheets as necessary)</i> The primary objective of the project is to minimize congestion on southbound I-5 at Jamboree Road off-ramp during both AM and PM peak hours. This congestion results due to inadequate storage capacity of Jamboree Road off-ramp. The primary accident pattern are rear-end accidents during congested conditions. Making capacity enhancements to the Jamboree Road off-ramp can relieve these types of accidents. Improvements along the southbound I-5 and Jamboree Road off-ramp are needed to alleviate the congestion occurring during AM and PM peak hours. It was observed that the existing auxiliary lane on southbound I-5 between Tustin Ranch Road on-ramp and Jamboree Road off-ramp is congested during both AM and PM peak hours. Traffic backup extends up to Tustin Ranch Road on-ramp. This causes breakdown of weaving to and from the existing auxiliary lane. The Tustin Ranch Road on-ramp traffic attempting to enter the mixed-flow lanes of the southbound I-5 faces a high volume of traffic exiting Jamboree Road that exceeds the capacity of the off-ramp. The traffic volume at the Jamboree Road off-ramp in the AM peak hours is beyond the standard capacity of 1500 vph for a single-lane exit ramp at the exit nose.					

<p>Surrounding Land Use/Traffic Generators <i>(especially effect on diesel traffic)</i></p> <p>Commercial</p>
<p>Opening Yea(2012): Build and No Build LOS, AADT, % and # trucks, truck AADT of proposed facility</p> <p><u>Build:</u> LOS: B, AADT: 286,200, Trucks: 6.25%</p> <p><u>No Build:</u> LOS: F, AADT: 286,200, Trucks: 6.25%</p>
<p>RTP Horizon Year / Design Year(2032): Build and No Build LOS, AADT, % and # trucks, truck AADT of proposed facility</p> <p><u>Build:</u> LOS: D, AADT: 345600, Trucks: 6.65%</p> <p><u>No Build:</u> LOS: F, AADT: 345600, Trucks: 6.65%</p>
<p>Opening Year(2012): If facility is an interchange(s) or intersection(s), Build and No Build cross-street AADT, % and # trucks, truck AADT</p> <p><u>Jamboree Road:</u></p> <p><u>Build:</u> AADT: 63,070, No Truck data is available</p> <p><u>No Build:</u> AADT: 63,070, No Truck Data is available.</p> <p>RTP Horizon Year / Design Year(2032): If facility is an interchange (s) or intersection(s), Build and No Build cross-street AADT, % and # trucks, truck AADT</p> <p><u>Jamboree Road:</u></p> <p><u>Build:</u> AADT: 76,160, No Truck data is available</p> <p><u>No Build:</u> AADT: 76,160, No Truck data is available</p>
<p>Describe potential traffic redistribution effects of congestion relief <i>(impact on other facilities)</i></p> <p>There will be no potential traffic redistribution effects as a result of this project. By adding an auxiliary lane, the traffic flow during the peak hours will improve which will allow the traveling vehicles operate at higher speeds and therefore, it will reduce engine emissions.</p>
<p>Comments/Explanation/Details <i>(attach additional sheets as necessary)</i></p> <p>The proposed improvements will relieve the congestion at the Jamboree Road off-ramp and the traffic backup on the existing auxiliary lane. This would create additional storage for the off-ramp traffic and would improve traffic flow from Tustin Ranch Road on-ramp entering the southbound I-5 mixed –flow lanes. Therefore, it will improve weaving along the segment.</p>